



FG1600-G0 All-in-one Optical Gateway

1*(SFP+)+4*(2.5GE)+4*GE+4*GPON+8*RJ11+USB2.0

Feature:



Integrated Access, Light Deployment
Integrated export routing, AC control,
Portal certification, IPPBX, IAD etc



Fast Coverage, Ultimate Experience
Supports 256 APs & 300 SIP terminals
Dual cascading doubles capacity



Cloud Platform Visual O&M
Plug-and-play, Easy Maintenance

Introduction:

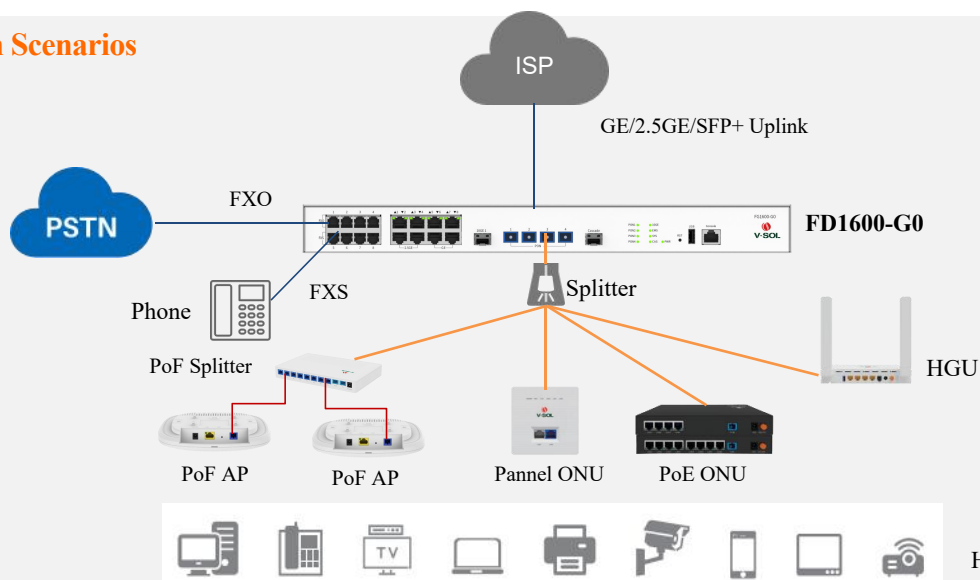
FD1600-G0 All-in-One Converged Optical Gateway

VSOL FD1600-G0 is an all-in-one optical gateway for industrial parks, hotels, hospitals and campuses. With 2.5G Ethernet and POTS ports, it manages optical APs to deliver stable Wi-Fi 6 seamless roaming at multi-gigabit speeds.

Integrating routing, switching, AC, Portal, IPPBX and IAD in one box, it removes multi-device stacks to lower hardware, wiring and O&M costs. Plug-and-play optical endpoints accelerate on-site deployment.

It supports up to 256 optical APs, expandable to 512 via dual cascading. Matching APs offer full Wi-Fi 6 coverage with 50ms low-latency roaming for smooth office, voice and video services. Local & cloud dual O&M delivers fast setup, remote management and topology visualization, ideal for lightweight smart all-optical networking.

Application Scenarios



Hotels | Hospitals | Campuses | SMBs

Item		FG1600-G0
Chassis	Rack	1U 19Inch Standard Box
Dimension (L*W*H)		440mm×300.8mm×43.5mm
Weight		NA
Working Environment		Operating temperature: -10°C ~ 45°C, Relative humidity: 5-95%(non-condensation)
Storage Environment		Storage temperature: -30°C ~ 60°C, Relative humidity: 5-95%(non-condensation)
Power supply		100-240V AC,50/60Hz
Power consumption		< 45W
Interface	Network-side Ports	4*GE(LAN/WAN)+4*2.5GE(LAN/WAN)+1*SFP+
	User-side Ports	4*GPON+4*FXO(RJ11)+4*FXS(RJ11)+1*USB 2.0,1*CONSOLE,1*Reset
Uplink Optical Port		SFP+, support XGSPON/XGPON/10GE/GE adaptive
Downlink GPON Port		Interface type: SC/UPC, Meet standard ITU-T G.984.2, Class B+ Receive light power: -7dBm ~ -28dBm, Launching power: 0 ~ 5dBm Transmission rate: downlink rate 2.488Gbit/s, uplink rate 1.244Gbit/s
GE Port		4*10/100/1000MBit/s rate adaptation,auto MDI/MDIX, IEEE802.3 standard
2.5GE Port		4*10/100/1000/2500MBit/s rate adaptation,auto MDI/MDIX
POTS Port		8*RJ11, Standard SIP protocol, Support G.711A/U, G.729A/B, G.722 codec T.30/T.38/G.711 Fax Mode, DTMF, Meet YD/T 1054-2000 standards
Device Cascading		Supports cascading of two FD1600-G0 units for unified integrated operation
AP Management Capacity		256
SIP Terminal Registration Capacity		300

Gateway function

- Support static routing, default routing
- Support static IP/DHCP/PPPoE connection method
- Bridge mode, routing mode, NAT/NAPT, support one-to-one address mapping, port mapping
- Support VLAN management, support VLAN division based on ports and business
- Support DHCP Server
- Support NAT ALG, ARP, UPNP
- Support loop detection, support link layer link discovery protocol LLDP

Networking function

- Support P2MP with Optical AP and Optical Terminals to network, Plug & Play
- Uniform management of Optical AP and ONU, etc.
- Network topology visualization

IPv4/IPv6

- Supports IPv4/IPv6 dual stack, routing, data forwarding and DS-Lite tunnels

Safety

- Basic firewall and access control
- WAN side access limit, URL filtering, IP/mac/port address filtering
- ARP deception/ARP flood, DOS/PORTSCAN/IPv6Session
- Anti-Synflood/Smurf
- Message inhibits DHCP/ARP/IGMP

VPN

- IPsec VPN
- L2TP VPN
- VxLAN VPN

Broadcast function

- IGMPv2/v3, IGMP Snooping, IGMP Proxy
- MLDv1, MLD Snooping, MLD Proxy

QoS

- Based on physical port, VLAN, IP address speed limit
- SP, WRR queue tone algorithm
- Priority mapping, congestion management, priority management

Voice function

- Support 150 SIP user authorization number
- Support complete basic voice business
- Support the expansion functions of alarm clock business, automatic header business, voice mail and other expansion functions
- Support docking dock

Wifi management

- Under the management of Optical Gateway, Wi-Fi channel automatic selection, channel adjustment
- Support AP Wi-Fi roaming, Wi-Fi roaming switching delay of 50ms (802.11k/ 802.11v/ 802.11r) in the main network

Management and maintenance

- Support APP/Web/Telnet/SSH/ TR069 management and etc
- Support zero configuration, Plug&Play
- Unified Network Management
- Support ping, tracer network diagnosis

Ordering Information:

Product Name	Product Description	Power	Accessories
FG1600-G0	Uplink: 1*(SFP+)+4*(2.5GE)+4*GE Downlink: 4*GPON+8*RJ11+USB2.0	100-240V AC,50/60Hz	NA